

Listing of Claims:

1. (Currently Amended) A drive control method of for a photosensor array including a plurality of rows, each having a plurality of photosensors arranged to form a matrix, the method comprising a driving sequence which includes:

5        a first step for applying a reset pulse to a predetermined row of said the photosensor array so as to initialize the plural plurality of photosensors in said the row;

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10        accumulating charges generated by light irradiation during a charge accumulation period;

15        applying a predetermined pre-charge pulse to the plurality of photosensors during a pre-charge operation; and

15        a second step of applying a read pulse to the plural plurality of photosensors of said the row after completion of said the initialization, after a the charge accumulating period for accumulating charges generated by light irradiation, and after a the pre-charge operation in which a predetermined pre-charge pulse is applied to said plurality of photosensors, to output the a voltage generated by the charges accumulated during said the charge accumulating period as an output voltage; [,,]

20        wherein the timings of applying the reset pulse, the pre-charge pulse and the read pulse for to each row are set not to overlap in time with each other, and the charge accumulating

periods for the rows are set to have a period equal to one of  
an application time and an integer multiple of the application  
25 time of the read pulse for each row, and the charge accumulating  
periods have an overlapping period between at least two  
different rows.

2. (Currently Amended) The drive control method for a  
photosensor system according to claim 1, wherein said the reset  
pulses are successively applied to the rows of the photosensor  
array ~~in said first step so as to successively initialize said~~  
5 ~~the~~ plurality of photosensors, and

wherein the read pulses are successively applied to said the  
plurality of photosensors ~~in said second step after said the~~  
initialization, after ~~a predetermined the~~ charge accumulating  
period and after completion of the pre-charge operation,  
10 ~~performed by said pre-charge pulse~~ to output successively the  
voltages generated by the charges accumulated during ~~said the~~  
charge accumulating period as the output voltages.

3. (Currently Amended) The drive control method for a  
photosensor system according to claim 2, wherein ~~the applying an~~  
application period of said the pre-charge pulse and said the read  
pulse for each row ~~in said second step~~ is equal to or longer than

~~the a sum of the a pulse width of the pre-charge pulse and the a pulse width of the read pulse.~~

4. (Currently Amended) The drive control method for a photosensor system according to claim 2, wherein ~~the applying an application period of said the reset pulse for each row in said first step and the applying an application period of said the~~ pre-charge pulse and ~~said the~~ read pulse for each row in ~~said second step is are~~ equal to or longer than ~~the a sum of the a pulse width of the pre-charge pulse and the a pulse width of the read pulse.~~

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5. (Currently Amended) The drive control method for a photosensor system according to claim 2, wherein ~~the applying an application period of said the reset pulse for each row in said first step and the applying an application period of said the~~ pre-charge pulse and ~~said the~~ read pulse for each row in ~~said second step is are~~ equal to or longer than ~~the a sum of the a pulse width of the reset pulse in the first step, the a pulse width of the pre-charge pulse and the a pulse width of the read pulse in said second step.~~

Claim 6 (Canceled).

7. (Currently Amended) The drive control method for a photosensor system according to claim 1, wherein each of said photosensor the photosensors comprises a source electrode and a drain electrode arranged with a channel region consisting of comprising a semiconductor layer interposed therebetween, and a first electrode and a second electrode formed at least above and below said channel region with insulating layers interposed therebetween, and wherein the charges are generated and accumulated in an amount corresponding to the an amount of light irradiating said channel region.

8. (Currently Amended) The drive control method for a photosensor system according to claim 7, wherein said the reset pulse is applied to said the first electrode of said the photosensor in said first step to initialize said the photosensor; and

said the pre-charge pulse is applied to said the drain electrode of the photosensor in the second step, and said the read pulse is applied to said the second electrode of the photosensor after completion of the pre-charge operation performed by application of the pre-charge pulse to output the a voltage of the drain electrode as an the output voltage.

9. (Currently Amended) The drive control method for a photosensor system according to claim 1, wherein ~~the applying an application period of said the pre-charge pulse for each row and said the read pulse in said second step is equal to or an integer number times as long as the a sum of the a pulse width of the pre-charge pulse and the a pulse width of the read pulse in said second step.~~

Q 3 10. (Currently Amended) The drive control method for a photosensor system according to claim 9, wherein ~~said the charge accumulating periods for the rows in said second step are equal to or an integer number times as long as said sum and are set different from each other depending on the rows.~~

11. (Currently Amended) The drive control method for a photosensor system according to claim 9, wherein ~~said the reset pulses are simultaneously applied to the rows of said the photosensor array in said first step, and said the pre-charge pulses are applied in said second step at the time interval equal to or an integer number times as long as said sum, and said the read pulses are applied to each row, and wherein the charge accumulating period for each row is set to a different time.~~

12. (Currently Amended) The drive control method for a photosensor system according to claim 9, wherein said the reset pulses are applied ~~in said first step~~ to each row of said the photosensor array at the time interval equal to or an integer 5 number times as long as said sum and, after completion of the reset pulse application to all the rows, said the pre-charge pulses are applied ~~in said second step~~ and the read pulses are applied to each row in the an order opposite to the an order of applying the reset pulses to each row of the photosensor array ~~in the first step.~~

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13. (Currently Amended) The drive control method for a photosensor system according to claim 9, wherein said the reset pulses are successively applied ~~in said first step~~ to each row of said the photosensor array at the time interval equal to or an 5 integer number times as long as said sum;  
wherein said the pre-charge pulses are applied ~~in said second step~~ in synchronism with the application of the reset charges ~~said first step~~, and the read pulses are applied to each row in the an order opposite to the an order of applying the 10 reset pulses to each row of the photosensor array ~~in the first step; and~~

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15       wherein after completion of the a pre-charge voltage application and the read pulse application, and after a lapse of time equal to said sum of time, said the pre-charge pulses are applied and the read pulse is applied again to each row in the an order equal to the order of applying the read pulse to each row at the time interval equal to or an integer number times as long as said sum of time.

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